

Revision 0 to Revision 1 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
	Generic Changes	Replaced “Post-Treatment and Pre-Treatment” with “Post-treatment and Pre-treatment”. Replaced “steam line” with “steamline” where appropriate.
1	Cover page	Replaced “Revision 00 August 2005” with “Revision 01 January 2006”.
2	Cover page	Removed “(Conditional Release – pending closure of Design Verification)”.
3	Header	Replaced “Rev. 00” with “Rev. 01”
4	Abbreviations And Acronyms	Added “AHU – Air Handling Unit” and ‘MVP – Mechanical Vacuum Pump”
5	Abbreviations And Acronyms, NS Definition	Deleted “(non-seismic Category I)”
6	Section 11.1.2, 1 st para.	Replaced “gamma-rays” with “gamma rays”.
7	Section 11.2.2.2, last para., 2 nd sent.	Replaced “mobile based” with “mobile-based”.
8	Section 11.2.3, last para.	Replaced “Subsection” with “Section”.
9	Section 11.2.5, 1 st para., new 3 rd sent.	Added “A continuous radiation detector is provided to monitor the discharge of radioactivity to the environs.”
10	Figure 11.2-1	Figure revised - added “Off-Site Discharge via Radiation Monitors” (two places).
11	Table 11.2-3	Added “A DF of 1 is used for tritium.”
12	Section 11.3.1, 1 st para., 1 st sent.	Replaced “reasonable” with “reasonably”.
13	Section 11.3.1, 2 nd para.	Added “,” after “Section 9.4”.
14	Section 11.3.1, 3 rd para.	Added “,” after “holdup”; deleted “,” after “and”.

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15	Section 11.3.1, 7 th para, last sent.	Replaced “11.3-1” with “11.3-5”.
16	Section 11.3.1, 8 th para, 1 st sent.	Deleted “given”.
17	Section 11.3.2, Process Equipment, new 3 rd bullet	Added “• dryers”.
18	Section 11.3.2, Process Facility, 2 nd para., 2 nd sent.	Deleted “In this capacity, the temperature of condensate supplied to the offgas condenser should not exceed the values shown in Table 11.3-1 during periods of normal operation and startup (main condenser evacuation) operation.”
19	Section 11.3.2, Releases, 1 st para., 1 st sent.	Added “iodine,”.
20	Section 11.3.2, Releases, 1 st para., last sent.	Deleted “maximum” before “release”.
21	Section 11.3.2.1, 2 nd para.	Replaced “section” with “Subsection”.
22	Section 11.3.2.1, Preheating, 3 rd & 4 th sent.	Replaced “Figure 10.1-2. Rated Heat Balance.” With “Figure 10.1-2 – Rated Heat Balance.”
23	Section 11.3.2.1, Adsorption, equation 11.3-1	Replaced “T =” with “t =” in two places.
24	Section 11.3.2.1, Noble Gas Mixture, last sent.	Replaced “of up to the value identified in the Technical Specifications (refer to Subsection 16.3.7.2).” with “that may occur in the event of gross fuel failures.”
25	Section 11.3.2.1, Range-ability, 1 st para.	Replaced “air flow” with “airflow”.
26	Section 11.3.2.1, Range-ability, 2 nd para., 1 st sent.	Replaced “high air flow as shown on the process data sheet” with “higher airflow”.

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27	Section 11.3.2.1, Range-ability, 2 nd para., 2 nd sent.	Replaced “air flow” with “airflow”.
28	Section 11.3.2.1, Redundancy, 1 st para., 1 st sent.	Added “dryers” after “recombiners,”.
29	Section 11.3.2.1, Charcoal Adsorber Bypass, 1 st para., 3 rd sent.	Added “(either guard bed or charcoal beds)”.
30	Section 11.3.2.1, Nitrogen and Air Purge, 3 rd sent.	Replaced “vessels that allows” with “vessels that allow”.
31	Section 11.3.2.2	Added “11.3.2.2”
32	Section 11.3.2.2, Equipment Room Ventilation Control, 1 st para, 1 st sent.	Replaced “positive” with “negative”.
33	Section 11.3.2.2, Construction of Process Systems, 3 rd sent.	Deleted “Process, sample and instrument line construction parameters are provided in Table 11.3-4.”
34	Section 11.3.2.2, Maintenance Access, 2 nd para.	Replaced “leaktight” with “leak tight”.
35	Section 11.3.7.1, 1 st para., 3 rd sent.	Replaced “Table 11.3-5” with “Table 11.3-4”.
36	Section 11.3.7.1, 2 nd para., 4 th sent.	Replaced “nine” with “ten”.
37	Section 11.3.7.1, 2 nd para., 5 th sent.	Added “and second” after “first”; replaced “guard, tank contains” with “guard tanks contain”; replaced “four lines” with “two lines”; and replaced “two massive tanks” with “four massive tanks”.

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38	Section 11.3.7.1, 2 nd para., 6 th sent.	Replaced “the (1) guard” with “(1) one guard”; replaced “four series” with “two series”; and replaced “all tanks” with “one guard bed and the two series of follow-on tanks”.
39	Section 11.3.7.1, 2 nd para., 8 th sent.	Deleted “[pathway (3)]”.
40	Section 11.3.7.1, 2 nd para., 9 th sent.	Replaced “pathway (3)” with “the bypass of all tanks”; and replaced “not assumed that inadvertent entry into pathway (3) is likely” with “assumed not likely”
41	Section 11.3.7.1, 2 nd para., 10 th sent.	Replaced “Redundant upon human decision-making and downstream” with “Downstream”
42	Section 11.3.7.1, 3 rd para., 2 nd and 3 rd sent.	Deleted “contained in the Technical Specification (refer to Subsection 16.3.7.2). The analysis is”.
43	Section 11.3.7.1, 3 rd para., last sent.	Replaced “30 minutes” with “1 hour”.
44	Section 11.3.7.1, 4 th para., 2 nd bullet	Replaced “30 minutes” with “1 hour” (two places).
45	Section 11.3.7.2, 1 st para.	Replaced “Table 11.3-5” with “Table 11.3-4”; replaced “Table 11.3-6” with “Table 11.3-5 and Table 11.3-6”; and replaced “Table 11.3-6” with “Table 11.3-7”.
46	Section 11.3.7.2, 2 nd para.	Replaced “Table 11.3-8” with “Table 11.3-7”.
47	Section 11.3.8.1	Deleted “and 11.3.4”.
48	Table 11.3-1	Removed blank rows
49	Table 11.3-1	Deleted rows “Maximum condensate temperature during normal operation”, “Maximum condensate temperature during startup”, “Hydrogen/oxygen catalytic recombiner defined minimum air flow”, “Maximum recombiner effluent gas temperature during normal operation”, “Maximum recombiner effluent gas temperature during startup”, “Recombiner preheat minimum temperature”, and “Recombiner noncondensable gas maximum temperature”.
50	Table 11.3-1, 2 nd column, Charcoal temp (approx)	Replaced “100” with “95”.

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51	Table 11.3-1, 2 nd column, Gaseous waste stream temp.	Replaced “38” with “35”; and replaced “100” with “95”.
52	Table 11.3-1, 1 st column	Replaced “Air flow range” with “Radiolytic gas flow range”.
53	Table 11.3-1, 2 nd column, Radiolytic gas flow range	Replaced “0.17m ³ /min (6scfm) to 7 m ³ /min (247 scfm)” with “0 to 8.6 m ³ /min (302 scfm)”.
54	Table 11.3-1, 2 nd column, Major offgas activity MPC	Replaced “6.2E” with “5.9E”.
55	Table 11.3-2, Recombiner, Carbon steel shell, Design pressure	Replaced “2.44” with “2.41”.
56	Table 11.3-2, Recombiner, Preheater Section, Tube-side design pressure	Replaced “2.41” with “8.6”; replaced “350 psig” with “1250 psig”.
57	Table 11.3-2, Cooler Condenser, Shell-side design temp.C	Deleted “0 to” and deleted “32 to”.
58	Table 11.3-2, Cooler Condenser, Tube-side design pressure	Replaced “0.69 MPa gauge (100 psig)” with “1 MPa gauge (145 psig)”.
59	Table 11.3-2, Charcoal Adsorbers, Design temp.	Deleted “4.4 to”; and deleted “40 to”.
60	Table 11.3-3, 3 rd column, 7 th row	Replaced “H ₂ O ₂ “ with “H ₂ O ₂ “.
61	Table 11.3-4	Deleted table and renumbered following tables
62	Table 11.3-4	Renumbered from Table 11.3-5
63	Table 11.3-4, para. I.c.	Deleted
64	Table 11.3-4, para. I.d.	Renumbered to 1.c; replaced “0.5 h” with “1h”.

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65	Table 11.3-4, para. I.e.	Deleted
66	Table 11.3-5	Renumbered from Table 11.3-6
67	Table 11.3-5, Title	Replaced “Isotopic Source and Releases to the Environment” with “Isotopic Source Rates for Design Basis*”
68	Table 11.3-5, 1 st heading row	Deleted “A. Isotopic Flow Rates for Design Basis*”
69	Table 11.3-5, 2 nd heading row	Replaced upper case “T” with lower case “t” in two places.
70	Table 11.3-5, 4 th and 5 th columns	Deleted
71	Table 11.3-5, 7 th row, 1 st column	Replaced “Total” with “Total Kr”.
72	Table 11.3-5, 15 th row, 1 st column	Replaced “Total” with “Total Xe”.
73	Table 11.3-6	Renumbered from Table 11.3-6 (Continued)
74	Table 11.3-6, Title	Replaced “Isotopic Source and Releases to the Environment (Continued)” with “Releases to the Environment”.
75	Table 11.3-6, 1 st heading row	Deleted “B. Environmental Releases from Guard Bed*” and the * at bottom of page..
76	Table 11.3-6, 2 nd heading row	Deleted “Charcoal” in two places.
77	Table 11.3-6, 1 st column, 7 th row	Replaced “Total” with “Total Kr”.
78	Table 11.3-6, 1 st column, 15 th row	Replaced “Total” with “Total Xe”.
79	Table 11.3-6, 5 th & 6 th columns, Releases	All Kr and Xe Releases have been updated due to re-analysis that was committed in RAI 12.2.2-2, letter MFN 05-153, dated 12/9/05.
80	Table 11.3-7, 2 nd column	Replaced “1.55” with “3.1”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
81	Figure 11.3-1, Sh 1 of 2	Deleted “Sh 1 of 2”.
82	Figure 11.3-1, Sh 2 of 2	Deleted
83	Section 11.4.2.3, Tanks, 1 st para., last sent.	Deleted “the” before “ASME”.
84	Section 11.5.1.1.1, 2 nd para., 1 st bullet	Deleted “air” after “exhaust”.
85	Section 11.5.1.1.1, 2 nd para., 2 nd bullet	Replaced “air” with “HVAC”.
86	Section 11.5.1.1.1, 2 nd para., 3 rd bullet	Replaced “Room” with “Building” and replaced “supply” with “HVAC”.
87	Section 11.5.1.1.1, 2 nd para., 5 th bullet	Replaced “Discharge” with “Exhaust”.
88	Section 11.5.1.1.1, 2 nd para., 7 th bullet	Added new bullet.
89	Section 11.5.1.1.2, 2 nd para., 1 st bullet, 1 st dash	Replaced “Stack” with “Plant Stack”.
90	Section 11.5.1.1.2, 2 nd para., 1 st bullet, 2 nd dash	Added “Normal Ventilation Air” after “Building”.
91	Section 11.5.1.1.2, 2 nd para., 1 st bullet, 3 rd dash	Added “Building” after “Turbine”, added “Air” after “Area”, and replaced “Exhaust” with “HVAC”.
92	Section 11.5.1.1.2, 2 nd para., 1 st bullet, 5 th dash	Added “Steam” after “Seal”.
93	Section 11.5.1.1.2, 2 nd para., 1 st bullet, 6 th dash	Added “Combined” after “Building”.
94	Section 11.5.1.1.2, 2 nd para., 1 st bullet, 7 th dash	Added “Combined” after “Building” and replaced “Vent” with “Exhaust”.

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95	Section 11.5.1.1.2, 2 nd para., 1 st bullet, 8 th dash	Deleted
96	Section 11.5.1.1.2, 2 nd para., 1 st bullet, 9 th dash	Deleted “Filter” after “Exhaust”.
97	Section 11.5.1.1.2, 2 nd para., 3 rd bullet, 1 st dash	Replaced “Steam Line” with “Steamline”.
98	Section 11.5.1.1.2, 2 nd para., 3 rd bullet, 2 nd dash	Deleted “sampling”.
99	Section 11.5.1.1.2, 2 nd para., 3 rd bullet, 3 rd dash	Deleted “sampling”.
100	Section 11.5.1.1.2, 2 nd para., 3 rd bullet, 4 th dash	Deleted “exhaust”.
101	Section 11.5.1.1.2, 2 nd para., 5 th bullet, 1 st dash	Replaced “Ventilation” with “HVAC Air Intake”.
102	Section 11.5.2, 1 st para.	Added “designed to be” after “PRM is”, and added “and guidelines” after “requirements”.
103	Section 11.5.2, 1 st para., 1 st bullet	Added new bullet.
104	Section 11.5.2, 1 st para., 2 nd bullet	Added “63” after “60”, deleted “of” and moved “10 CFR 50 Appendix A” to front of sentence.
105	Section 11.5.2, 1 st para., 3 rd and 4 th bullets	Added new bullets.
106	Section 11.5.2, 1 st para., 5 th bullet	Added “(Draft Rev. 4)” after “Plan 11.5”.
107	Section 11.5.2, 1 st para., 6 th bullet	Deleted “Applicable provisions of 10 CFR 20.1302, Regulatory Guide (RG) 1.21 and RG 1.97, and”.

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108	Section 11.5.2, 1 st para., 7 th and 8 th bullets	Added new bullets.
109	Section 11.5.2.2, 1 st para.	Replaced “shall” with “will”.
110	Section 11.5.3.1.1, 3 rd para., 1 st sent.	Deleted “vent”.
111	Section 11.5.3.1.1, 3 rd para., last sent.	Replaced “Technical Specification limits” with “limits imposed by 10 CFR 50, Appendix I”.
112	Section 11.5.3.1.2, heading title	Replaced “Ventilation” with “HVAC”.
113	Section 11.5.3.1.2, 3 rd para., 2 nd sent.	Added “system” at end of sentence.
114	Section 11.5.3.1.3, heading title	Added “Air Intake” after “Building”
115	Section 11.5.3.1.3, 1 st para., 1 st sent.	Added “Air Intake” after “Building”, and added “intake” after “normal outdoor air”.
116	Section 11.5.3.1.3, 1 st para., 2 nd sent.	Added “refuel” before “area exhaust fans”.
117	Section 11.5.3.1.3, 2 nd para.	Added “Air Intake” after “Building”.
118	Section 11.5.3.1.3, 3 rd para.	Added “Air Intake” after “Building”.
119	Section 11.5.3.1.3, 6 th para., 2 nd sent.	Added “the 10 CFR 50 Appendix A GDC 19 guidelines of” after “exceeding”.
120	Section 11.5.3.1.5, 1 st para., 1 st sent.	Added “exhaust of the air from the” before “atmospheric”.
121	Section 11.5.3.1.5, 3 rd para.	Replaced “vent” with “pool area exhaust”.
122	Section 11.5.3.1.5, 4 th para., 2 nd sent.	Added “from normal operation up to, and several decades beyond,” after “coverage”, and replaced “Technical Specification limits” with “limits of 10 CFR 20”.
123	Section 11.5.3.1.5, 4 th para., 3 rd sent.	Added new sentence.

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124	Section 11.5.3.1.6, 1 st para., 1 st sent.	Added “Main” after “Building”.
125	Section 11.5.3.1.6, 2 nd para.	Added “fans” after “Fuel Building Area HVAC”.
126	Section 11.5.3.1.6, 3 rd para., 2 nd sent.	Added “, and including several decades beyond,” after “operation up to”, added “air” after “subsequent”, and replaced “Ventilation” with “HVAC”.
127	Section 11.5.3.1.7	Added new section.
128	Section 11.5.3.2.1, heading title	Replaced “Steam Line” with “Steamline”.
129	Section 11.5.3.2.1, 4 th para., 1 st sent.	Deleted “is utilized to”, replaced “initiate” with “initiates”; and added “upon detection of high radiation” after “closure”.
130	Section 11.5.3.2.1, 5 th para., 2 nd sent.	Added “radiation at zero percent reactor power” after “background”, added “from reactor fuel” after “products”, added “its” before subsequent, and replaced “steam line” with “Main Steamlines”.
131	Section 11.5.3.2.2, 1 st para., 1 st sent.	Added “/cooler” after “separator”.
132	Section 11.5.3.2.2, 2 nd para., last para.	Replaced “adjacent to” with “on”.
133	Section 11.5.3.2.2, 3 rd para., 1 st sent.	Added “in the sample chamber” after “gases”, replaced “using a sampler to obtain” with “obtaining”, and added “at the sample panel” after “grab sample”.
134	Section 11.5.3.2.2, 4 th para., 2 nd sent.	Replaced “cover” with “provide indication over”, and added “approximately” before “3.7”.
135	Section 11.5.3.2.3, 1 st para.	Added two new sentences between 2 nd and 3 rd sentences.
136	Section 11.5.3.2.3, 4 th para.	Deleted
137	Section 11.5.3.2.3, 5 th para., 1 st sent.	Added “Charcoal Bed” before “bypass valves”.
138	Section 11.5.3.2.3, 5 th para., 2 nd sent.	Replaced “offsite dose” with “10 CFR 20.1203”.

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139	Section 11.5.3.2.3, 6 th para.	Replaced “A vial sampler panel similar to the pre-treatment sampler panel is provided” with “Provisions”, and replaced “to allow” with “are provided and can be sued for”.
140	Section 11.5.3.2.3, 8 th para.	Added new paragraph.
141	Section 11.5.3.2.3, 9 th para., 1 st sent.	Deleted “for particulates and halogens” after “Table 11.5-2”.
142	Section 11.5.3.2.3, 9 th para., 3 rd sent.	Added “range” after “lower”.
143	Section 11.5.3.2.3, 9 th para., 4 th sent.	Replaced “such factors as site size, meteorology, release level, and prevailing regulatory positions” with “plant unique factors such as site size, and meteorology”.
144	Section 11.5.3.2.3, 10 th para.	Added new paragraph.
145	Section 11.5.3.2.4, heading title	Added “Ventilation” after “Vault”.
146	Section 11.5.3.2.4, 1 st para., 1 st sent.	Replaced “The charcoal vault is monitored for gross gamma radiation level with a single instrument channel.” with “The ventilation of the charcoal vault is monitored for gross gamma radiation level, in order to look for leakage from the charcoal tanks. A single instrument channel is used.”.
147	Section 11.5.3.2.4, 1 st para., 3 rd sent.	Added “charcoal” after “outside the”.
148	Section 11.5.3.2.4, 2 nd para., 2 nd sent.	Added “span normal radiation background to beyond a point where it would have successfully” after “selected to”, and replaced “indicate” with “indicated”.
149	Section 11.5.3.2.4, 2 nd para., 3 rd sent.	Added “Under normal operation, the charcoal vault ventilation air flow should not have radioactivity in it.”
150	Section 11.5.3.2.5, heading title	Added “Combined” after “Building” and replaced “Stack” with “Exhaust”.
151	Section 11.5.3.2.5, 1 st para.	Added “Combined” after “Building” and replaced “Vent discharge” with “exhaust”.

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152	Section 11.5.3.2.5, 2 nd para., 1 st sent.	Replaced “through an isokinetic probe in accordance with ANSI N13.1,” with “and”, added “Combined” after “Building”, and replaced “Vent” with “Exhaust stream”.
153	Section 11.5.3.2.5, 2 nd para., 2 nd and 3 rd sent.	Second and 3 rd sentences moved to new 3 rd para, and added new 2 nd and 3 rd sentences.
154	Section 11.5.3.2.5, 3 rd para., 3 rd sent.	Added 3 rd sentence.
155	Section 11.5.3.2.5, 4 th para.	Replaced “The” with “Each”.
156	Section 11.5.3.2.5, 5 th para., 2 nd sent.	Replaced “the sampled line is monitored for high or low flow conditions” with “abnormal flow, measured at the sample panel, is annunciated in the MCR”.
157	Section 11.5.3.2.5, 6 th para.	Added 6 th paragraph.
158	Section 11.5.3.2.5, 8 th para., 1 st sent.	Deleted “for particulates and halogens” after “Table 11.5-2”.
159	Section 11.5.3.2.5, 8 th para., 2 nd sent.	Replaced “cover ranges stipulated by 10CFR 20” with “provide indication of isotopic effluent concentrations provided in 10CFR20”
160	Section 11.5.3.2.5, 8 th para., 3 rd sent.	Added 3 rd sentence.
161	Section 11.5.3.2.6, 1 st para.	Replaced “radwaste liquid” with “liquid radwaste”.
162	Section 11.5.3.2.6, 2 nd para., 1 st sent.	Deleted “evaporation,” before “filtration”.
163	Section 11.5.3.2.6, 2 nd para., 2 nd sent.	Replaced “radwaste liquid” with “liquid radwaste”, and deleted “gross” before “radiation”.
164	Section 11.5.3.2.6, 3 rd para., 1 st sent.	Added “and flushed” after “drained”.
165	Section 11.5.3.2.6, 5 th para., 2 nd sent.	Deleted and replaced with two new sentences.
166	Section 11.5.3.2.7, 1 st para., 2 nd sent.	Replaced “RCCW system” with “RCCWS”, and added “and, as such, addresses the guidelines of RG 1.45” after “loop”.

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167	Section 11.5.3.2.7, 2 nd para., 1 st sent.	Replaced “near the” with “on the downstream side of each”, and replaced “RCCW” with “RCCWS”.
168	Section 11.5.3.2.7, 3 rd para., 2 nd sent.	Deleted
169	Section 11.5.3.2.8, 1 st para., 1 st sent.	Replaced “discharge to the Radwaste Building vent” with “exhaust”.
170	Section 11.5.3.2.8, 1 st para., 3 rd and 4 th sent.	Added 3 rd and 4 th sentences.
171	Section 11.5.3.2.8, 2 nd para.	Deleted
172	Section 11.5.3.2.8, 2 nd , 3 rd & 4 th para.	Added second, third, and fourth paragraphs.
173	Section 11.5.3.2.8, 7 th para., 1 st sent.	Deleted “for particulates and halogens” after “Table 11.5-2”.
174	Section 11.5.3.2.8, 7 th para., 2 nd sent.	Replaced second sentence
175	Section 11.5.3.2.9, heading title	Replaced “Ventilation Exhaust” with “Compartment Area Air HVAC”.
176	Section 11.5.3.2.9, 1 st para., 1 st sent.	Replaced “vent exhaust” with “air in the compartment area HVAC”.
177	Section 11.5.3.2.9, 1 st para., 2 nd sent.	Replaced “four” with “two”, and deleted “(two redundant sets)” after “channels”.
178	Section 11.5.3.2.9, 1 st para., 3 rd sent.	Deleted
179	Section 11.5.3.2.9, 1 st para., 4 th sent	Replaced “adjacent” with “internal”.
180	Section 11.5.3.2.9, 1 st para., 6 th sent.	Replaced “trips on radiation high and on inoperative in the MCR” with “trips in the MCR on high radiation and when a monitor is inoperative”
181	Section 11.5.3.2.9, 2 nd para., 2 nd sent	Deleted
182	Section 11.5.3.2.10	Added new section 11.5.3.2.10 and renumbered the sections following.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
183	Section 11.5.3.2.11, 1 st para., 1 st sent.	Added “Combined” after “Building”, replaced “Vent” with “exhaust”, added “main” before “turbine”, and added “condenser” before “system”.
184	Section 11.5.3.2.11, 3 rd & 4 th para.	Added new third and fourth paragraphs.
185	Section 11.5.3.2.11, 6 th para., 2 nd sent.	Deleted
186	Section 11.5.3.2.12, 2 nd para, 2 nd sent.	Added second sentence.
187	Section 11.5.3.2.12, 5 th & 6 th para.	Added fifth and sixth paragraphs.
188	Section 11.5.3.2.13, heading title	Replaced “Ventilation” with “HVAC Air Intake”.
189	Section 11.5.3.2.13, 1 st para., 1 st sent.	Added “air” after “intake”.
190	Section 11.5.3.2.13, 1 st para., 2 nd sent.	Deleted “at the outside air intake” after “radioactivity”.
191	Section 11.5.3.2.13, 3 rd para., 2 nd sent.	Replaced second sentence with two new sentences.
192	Section 11.5.3.2.14	Added new section.
193	Section 11.5.3.2.15	Added new section.
194	Section 11.5.3.2.16	Added new section.
195	Section 11.5.4.2	Replaced “within the range specified” with “provided”.
196	Section 11.5.4.4, 1 st sent.	Replaced “the safety-related” with “certain safety-related”; and added “Offsite Dose Calculation Manual required by”.
197	Section 11.5.5.2, 1 st para, 1 st sent.	Replace “discharge” with “effluent”.
198	Section 11.5.5.2, 1 st para, 2 nd sent.	Replace “These” with “The subsystems providing these features”.
199	Section 11.5.5.2, 1 st bullet	Added “RMS” at end.

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200	Section 11.5.5.2, 2 nd bullet	Deleted “Air”, and added “RMS” at end.
201	Section 11.5.5.2, 3 rd bullet	Replaced “Fuel” with “Refuel”, “Ventilation” with “HVAC”, and added “RMS” at end.
202	Section 11.5.5.2, 4 th bullet	Replaced “discharge” with “Discharge”, and added “RMS” at end.
203	Section 11.5.5.2, 5 th bullet	Replaced “Radwaste Liquid” with “Liquid Radwaste”, and added “RMS” at end.
204	Section 11.5.5.2, 6 th , 7 th , 8 th & 9 th bullets	Added
205	Section 11.5.5.3, 1 st para., 1 st sent.	Added “Fuel storage and” before “Radioactive”.
206	Section 11.5.5.3, 1 st para., 2 nd sent.	Replaced “These” with “The subsystems monitoring these areas”.
207	Section 11.5.5.3, 1 st bullet	Deleted “and Post-Treatment”, and added “RMS” at end.
208	Section 11.5.5.3, 2 nd bullet	New second bullet.
209	Section 11.5.5.3, 3 rd bullet	Added “RMS” at end.
210	Section 11.5.5.3, 4 th bullet	Added “AHU RMS” at end.
211	Section 11.5.5.3, 5 th , 6 th , 7 th , 8 th , & 9 th bullets	Added
212	Section 11.5.5.4, 1 st para., 1 st sent.	Added “spaces containing components for the recirculation of loss-of-coolant accident fluids,” after “atmosphere,”.
213	Section 11.5.5.4, 1 st para., 2 nd sent.	Replaced “These” with “The”, and added “subsystems monitoring these” after “The”.
214	Section 11.5.5.4, 1 st , 2 nd , 3 rd , 4 th & 5 th bullets	Added
215	Section 11.5.5.4, 6 th bullet	Replaced “steam line” with “Steamline”, and added “RMS” at end.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
216	Section 11.5.5.4, 7 th bullet	Replaced “Offgas pre-treatment and post-treatment” with “Offgas Pre-treatment and Offgas Post-treatment RMS”.
217	Section 11.5.5.4, 8 th bullet	Replaced “Carbon vault ventilation” with “Charcoal Vault Ventilation RMS”.
218	Section 11.5.5.4, 9 th bullet	Replaced “Intersystem leakage into Reactor Component Cooling Water” with “Reactor Component Cooling Water Intersystem Leakage RMS”.
219	Section 11.5.5.4, 10 th bullet	Added “Combined” after “Building”, and replaced “Vent” with “Exhaust RMS”.
220	Section 11.5.5.4, 11 th bullet	Replaced “Exhaust (Normal Ventilation & Area Exhaust)” with “Combined Ventilation Exhaust RMS”.
221	Section 11.5.5.4, 12 th bullet	Added “RMS” at end.
222	Section 11.5.5.4, 13 th bullet	Added “Main” before “Turbine”, and added “RMS at end”.
223	Section 11.5.5.4, 14 th bullet	Deleted
224	Section 11.5.5.4, 15 th bullet	Added “RMS” at end.
225	Section 11.5.5.4, 16 th , 17 th , 18 th , 19 th , 20 th & 21 st bullets	Added
226	Section 11.5.5.5, 2 nd sent.	Added “Appendix B” after “10 CFR 20”.
227	Section 11.5.5.8	Replaced “the safety-related” with “the certain safety-related”; and added “Offsite Dose Calculation Manual required by”.
228	Section 11.5.6.1, 2 nd para., 1 st sent.	Replaced “self diagnostics” with “self-diagnostics”.
229	Section 11.5.6.1, 3 rd para., 1 st bullet	Replaced “Steam line” with “Steamline”.
230	Section 11.5.6.1, 3 rd para., 2 nd bullet	Replaced “Vent exhaust” with “HVAC Exhaust”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
231	Section 11.5.6.1, 3 rd para., 3 rd bullet	Replaced “Vent exhaust” with “HVAC Exhaust”.
232	Section 11.5.6.1, 3 rd para., 4 th bullet	Replaced “Control building HVAC air intake supply” with “Control Building Air Intake HVAC”.
233	Section 11.5.6.1, 3 rd para., 7 th bullet	Deleted
234	Section 11.5.6.1, 3 rd para., 8 th bullet	Replaced “Vent exhaust (normal & compartment areas)” with “Normal Ventilation Air HVAC”.
235	Section 11.5.6.1, 3 rd para., 9 th bullet	Added
236	Section 11.5.6.1, 3 rd para., 10 th bullet	Replaced “Vent Exhaust” with “Ventilation”.
237	Section 11.5.6.1, 3 rd para., 11 th bullet	Deleted
238	Section 11.5.6.1, 3 rd para., 12 th bullet	Bullet changed to read “...Sump LCW/HCW Discharge...”
239	Section 11.5.6.1, 3 rd para., 13 th bullet	Replaced “Control Ventilation Intake” with “HVAC Air Intake”.
240	Section 11.5.6.1, 3 rd para., 15 th & 16 th bullets	Added
241	Section 11.5.6.1, 4 th para., 3 rd bullet	Replaced “Vent” with “Ventilation”.
242	Section 11.5.6.1, 4 th para., 5 th bullet	Added “Combined” after “Building”, and replaced “Vent” with “Exhaust”.
243	Section 11.5.6.1, 4 th para., 8 th bullet	Added “Combined” after “Building”, and replaced “Stack” with “Exhaust”.
244	Section 11.5.6.1, 4 th para., 9 th bullet	Added
245	Section 11.5.6.3, 3 rd para., 1 st sent.	Replaced “Ssampling” with “Sampling”.
246	Section 11.5.7	Replaced “None” with four subsections.
247	Section 11.5.8	Replaced “None” with References 11.5-1 through 11.5-14.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
248	Table 11.5-1, 1 st column, 1 st row under A.	Deleted
249	Table 11.5-1, 1 st column, 2 nd row under A.	Replaced “Ventilation” with “HVAC”.
250	Table 11.5-1, 1 st column, 3 rd row under A.	Replaced “Air Ventilation” with “HVAC”.
251	Table 11.5-1, 1 st column, 4 th row under A.	Added “HVAC” after “Intake”.
252	Table 11.5-1, 1 st column, 7 th row under A.	Replaced “Discharge” with “Exhaust”.
253	Table 11.5-1, 3 rd column, 7 th row under A	Added “air space surrounding” after “Exhaust of”.
254	Table 11.5-1, 8 th row under A	Added
255	Table 11.5-1, 1 st row under B.	Added
256	Table 11.5-1, 1 st column, 2 nd row under B.	Replaced “Stack” with “Plant Stack”.
257	Table 11.5-1, 1 st column, 3 rd row under B.	Replaced “Vent exhaust (Normal Ventilation & Area Exhausts)” with “Normal Ventilation Air HVAC”.
258	Table 11.5-1, 2 nd column, 3 rd row under B.	Replaced “4” with “2”.
259	Table 11.5-1, 3 rd column, 3 rd row under B.	Added “from Turbine Building Normal ventilation” after “Exhaust duct”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
260	Table 11.5-1, 4 th row under B.	Added
261	Table 11.5-1, 1 st column, 5 th row under B.	Replaced “HVAC Vent” with “Combined Ventilation Exhaust”.
262	Table 11.5-1, 3 rd column, 5 th row under B.	Added “combined” after “Building”.
263	Table 11.5-1, 4 th column, 5 th row under B.	Replaced “1E-4 to 1E0 mSv/h” with “1E-3 to 1E3 MBq/m3 (gaseous); added “1E-7 to 1E-1 MBq/m3 (particulate and iodine)”.
264	Table 11.5-1, 3 rd column, 7 th row under B.	Added “from exhaust from Gland Seal condenser” after “line”.
265	Table 11.5-1, 3 rd column, 8 th row under B.	Added “from combined liquid Radwaste effluent path” after “line”.
266	Table 11.5-1, 3 rd column, 9 th row under B.	Added “after Offgas cooler/condenser” after “line”
267	Table 11.5-1, 3 rd column, 10 th row under B.	Added “after Charcoal treatment beds” after “line”
268	Table 11.5-1, 2 nd column, 11 th row under B.	Added “1”.
269	Table 11.5-1, 3 rd column, 11 th row under B.	Added “after Charcoal treatment beds” after “line”.
270	Table 11.5-1, 1 st column, 12 th row under B.	Deleted “Exhaust”.
271	Table 11.5-1, 2 nd column, 13 th row under B.	Replaced “3” with “2”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
272	Table 11.5-1, 1 st column, 14 th row under B.	Replaced “Ventilation” with “HVAC Air Intake”.
273	Table 11.5-1, 3 rd column, 14 th row under B.	Replaced “Exhaust” with “Intake HVAC”.
274	Table 11.5-1, 3 rd column, 15 th row under B.	Added “from drywell atmosphere” after “line”.
275	Table 11.5-1, 3 rd column, 16 th row under B.	Added “from drywell atmosphere” after “line”.
276	Table 11.5-1, 1 st column, 17 th row under B.	Added “Combined” after “Building” and replaced “Stack” with “Exhaust”.
277	Table 11.5-1, 3 rd column, 17 th row under B.	Added “from drywell atmosphere” after “line”.
278	Table 11.5-1, 1 st column, 18 th row under B.	Deleted “Filter” after “Exhaust”.
279	Table 11.5-1, 2 nd column, 18 th row under B.	Added “2”.
280	Table 11.5-1, 3 rd column, 18 th row under B.	Added “HVAC duct leaving Fuel Building” after “On”.
281	Table 11.5-1, 1 st column, 19 th row under B.	Added “Combined” after “Building”, and replaced “Stack” with “Exhaust”.
282	Table 11.5-1, 2 nd column, 19 th row under B.	Added “3”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
283	Table 11.5-1, 3 rd column, 19 th row under B.	Added “from HVAC exhaust leaving Fuel Building” after “Line”.
284 A	Table 11.5-1, note	Deleted “Gy/h = Gray per hour; Sv/h = Sieverts per hour;”.
284 B	Table 15.5-2, 3 rd row, second column	Changed to read “...Inline (adjacent and external to HVAC Duct)...”
285	Table 11.5-2, 5 th column, all rows	Replaced all text with “***”.
286	Table 11.5-2, 2 nd column, 1 st row under Group A	Added “Main” before “Steam”.
287	Table 11.5-2, 2 nd column, 2 nd row under Group A, 1 st item	Replaced “to vent” with “and external to HVAC”.
288	Table 11.5-2, 1 st column, 2 nd row under Group A, 2 nd item	Replaced “Air” with “HVAC”.
289	Table 11.5-2, 2 nd column, 2 nd row under Group A, 2 nd item	Replaced “to vent” with “and external to HVAC”.
290	Table 11.5-2, 1 st column, 2 nd row under Group A, 3 rd item	Added “HVAC” after “Intake”.
291 A	Table 11.5-2, 2 nd column, 2 nd row under Group A, 3 rd item	Replaced “Offline” with “Inline”, and replaced “to air” with “and external to HVAC air”.
291B	Table 11.5-2, 3 rd row, second column	Changed to read: “Inline (adjacent and external to HVAC Duct)”
292	Table 11.5-2, 1 st column, 4 th row under Group A	Replaced “Discharge” with “Exhaust”.
293	Table 11.5-2, 5 th row	Added

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
294	Table 11.5-2, 1 st column, 4 th row under Group B	Deleted “Exhaust”.
295	Table 11.5-2, 2 nd column, 4 th row under Group B	Replaced “to vent” with “and external to HVAC”.
296	Table 11.5-2, 1 st column, 5 th row under Group B	Added “Normal Ventilation” after “Building” and deleted “(Normal)” after “Exhaust”.
297	Table 11.5-2, 2 nd column, 5 th row under Group B	Replaced “to vent” with “and external to HVAC”.
298	Table 11.5-2, 3 rd column, 5 th row under Group B	Replaced “ ≈ 1.7 to $1.7E4$ MBq/m ³ , $\approx 3E1$ to $3E5$ MBq/m ³ ” with “ $1E-4$ to $1E0$ mSv/h”.
299	Table 11.5-2, 4 th column, 5 th row under Group B	Replaced “Xe-133, Kr-85” with “Co-60”.
300	Table 11.5-2, 1 st column, 6 th row under Group B	Added “Air” after “Area”.
301	Table 11.5-2, 2 nd column, 6 th row under Group B	Replaced “to vent” with “and external to HVAC”.
302	Table 11.5-2, 3 rd column, 6 th row under Group B	Replaced “ ≈ 2 to $2E4$ MBq/ m ³ , $\approx 5E1$ to $5E5$ MBq/ m ³ ” with “ $1E-4$ to $1E0$ mSv/h”.
303	Table 11.5-2, 4 th column, 6 th row under Group B	Replaced “Xe-133, Kr-85” with “Co-60”.
304	Table 11.5-2, 1 st column, 7 th row under Group B	Added “Combined” after “Building” and replaced “Stack” with “Exhaust”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
305	Table 11.5-2, 1 st column, 8 th row under Group B	Replaced “Stack” with “Plant Stack”.
306	Table 11.5-2, 1 st column, 12 th row under Group B	Added “Combined” after “Building”, and replaced “Stack” with “Exhaust”.
307	Table 11.5-2, 2 nd column, 13 th row under Group B	Added “and internal to HVAC duct” after “Inline”.
308	Table 11.5-2, 3 rd column, 13 th row under Group B	Replaced “≈ 5.5” with “≈ 5.5E0”.
309	Table 11.5-2, 1 st column, 14 th row under Group B	Replaced “Ventilation” with HVAC Air Intake”.
310	Table 11.5-2, 2 nd column, 14 th row under Group B	Added “and internal to HVAC intake duct” after “Inline”.
311	Table 11.5-2, note	Added “; DNSC/INOP = downscale/inoperative; Abnormal Flow = High or Low flow in the sampling system outside system limits”.
312	Table 11.5-2, footnote *	Deleted
313	Table 11.5-2, footnote ** (now footnote *)	Replaced “***” with “*”, and replaced text with new footnote.
314	Table 11.5-2, footnote **	Added
315	Table 11.5-3, ID No. 2	Deleted “Vent”.
316	Table 11.5-3, ID No. 3	Replaced “Air” with “HVAC”.
317	Table 11.5-3, ID No. 4	Replaced ID “4” with “4A, 4B”, replaced “Room” with “Building” and added “HVAC” after “Intake”.
318	Table 11.5-3, ID No. 5	Added “Normal” after “Building”, and replaced “HVAC Exhaust” with “Air HVAC”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
319	Table 11.5-3, ID No. 6	Added “Building” after “Turbine” and added “Air” after “Area”.
320	Table 11.5-3, ID No. 8	Replaced “Exhaust” with “Air HVAC”.
321	Table 11.5-3, ID No. 10	Added “Combined” after “Building” and replaced “Stack” with “Exhaust”.
322	Table 11.5-3, ID No. 13	Replaced “Stack” with “Plant Stack”.
323	Table 11.5-3, ID No. 18	Added “Combined” after “Building”, and replaced “Stack” with “Exhaust”.
324	Table 11.5-3, ID No. 19	Replaced “Discharge” with “Exhaust”.
325	Table 11.5-3, ID No. 20	Replaced “Ventilation” with “HVAC Air Intake”.
326	Table 11.5-3, ID No. 23	Added
327	Table 11.5-4, 5 th column	Replaced all text with “***”.
328	Table 11.5-4, 2 nd column, 2 nd row	Replaced “Inline” with “Offline (mounted to external to RCCW piping)”.
329	Table 11.5-4, 2 nd column, 3 rd row	Replaced “Inline adjacent to pipe” with “Inline (mounted external to and adjacent to HCW and LCW discharge pipes outside the drywell)”.
330	Table 11.5-4, note	Added “; DNSC/INOP = downscale/inoperative”.
331	Table 11.5-4, footnotes * and **	Replaced both footnotes with new text.
332	Table 11.5-5, 2 nd column, Item 1, Filtrate	Deleted “*” after “Daily”.
333	Table 11.5-5, 2 nd column, Item 1, Filtrate	Replaced “***” with “*” after “Weekly”.
334	Table 11.5-5, 1 st column, Item 3	Replaced “Condenser” with “Condensate”.
335	Table 11.5-5, 1 st column, Item 4	Replaced “storage tank” with “Storage Tank”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
336	Table 11.5-5, 1 st column, Item 5	Replaced “Fuel Pool Filter – Demineralizer” with “FAPCS – Filter/Demineralizer”.
337	Table 11.5-5, 1 st column, Item 6.	Replaced “LCW Collector and Sampling tanks (4)” with “LCW Collection (3) and Sample Tank (2)”.
338	Table 11.5-5, 1 st column, Item 7.	Replaced “HCW Collector Tanks (2)” with “HCW Collection (2) and Sample Tank (2)”.
339	Table 11.5-5, 1 st column, Item 8.	Deleted and replaced with “Detergent Drain Subsystem Collection (2) and Sample Tank (2)”.
340	Table 11.5-5, 5 th column, Item 8	Deleted and replaced with “Evaluate System Performance”.
341	Table 11.5-5, footnote *	Deleted
342	Table 11.5-5, footnote **	Replaced “***” with “*”.
343	Table 11.5-6, 5 th column, Item 2.	Replaced “offgas” with “Offgas”.
344	Table 11.5-6, 5 th column, Item 3.	Added “efficiency” after “cleanup”
345	Table 11.5-6, Item 4.	Added
346	Table 11.5-6, footnotes * and **	Deleted
347	Table 11.5-7, Item 1.	Deleted
348	Table 11.5-7, 1 st column, Item 2.	Replaced “2” with “1”, and added “Discharge*” after “Effluent”.
349	Table 11.5-7, 3 rd column, new Item 1.	Deleted “****” after “Dissolved gas”.
350	Table 11.5-7, footnote *	Added “ESBWR Radwaste is processed on a batch basis.” before first sentence, added “a” before “tank” in second and third sentences.
351	Table 11.5-7, footnote **	Replaced with new text.
352	Table 11.5-7, footnote ***	Deleted

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
353	Table 11.5-8, 2 nd column, heading row	Added “*” after “Sample Frequency”.
354	Table 11.5-8, 1 st column, Item 1.	Added “Combined” after “Building”, replaced “Stack” with “Exhaust”, and deleted “*”.
355	Table 11.5-8, 1 st column, Item 2.	Replaced “Offgas Exhaust Discharge” with “Plant Stack”.
356	Table 11.5-8, Item 3.	Deleted
357	Table 11.5-8, 1 st column, Item 4.	Replaced “4” with “3”, and replaced “Discharge” with “Ventilation Exhaust”.
358	Table 11.5-8, new Item 4.	Added
359	Table 11.5-8, footnote *	Replaced with new text.
360	Table 11.5-8, footnotes ** and ***	Deleted
361	Figure 11.5-1	Figure revised per NRC comments: COPS deleted from figure; #22 and #21 corrected.